

# ADAM-4015

# ADAM-4015T

# ADAM-4016

6-channel RTD Module with Modbus®

6-channel Thermistor Module with Modbus®

Analog Input/Output Module



ADAM-4015



ADAM-4015T



ADAM-4016



## Specifications

### General

- Connectors 2 x Plug-in terminal block (#14 ~ 28 AWG)
- Power Consumption 1.2 W @ 24 V<sub>DC</sub>
- Wire-Burnout Detector Yes

### Analog Input

- Channels 6 differential
- Input Connections 2 or 3 wire
- Input Impedance 10 MΩ
- Input Type Pt, Balco and Ni RTD
- Isolation Voltage 3000 V<sub>DC</sub>
- NMR @ 50/60 Hz 100 dB

### RTD Types and Temperature Ranges

#### Pt 100 RTD:

Pt -50° C	to	150° C
Pt 0° C	to	100° C
Pt 0° C	to	200° C
Pt 0° C	to	400° C
Pt -200° C	to	200° C

IEC RTD 100 ohms (a = 0.00385)

JIS RTD 100 ohms (a = 0.00392)

#### Pt 1000 RTD

Pt -40° C	to	160° C
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#### Balco 500 RTD

-30° C	to	120° C
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#### Ni 50 RTD

Ni -80° C	to	100° C
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#### Ni 508 RTD

Ni 0° C	to	100° C
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- Sampling Rate 10 samples / sec.
- Span Drift ± 25 ppm/° C
- Zero Drift ± 3 μV/° C

## Specifications

### General

- Connectors 2 x Plug-in terminal block (#14 ~ 28 AWG)
- Power Consumption 1.2 W @ 24 V<sub>DC</sub>
- Wire-Burnout Detector Yes

### Analog Input

- Channels 6 differential
- Input Connections 2 or 3 wires
- Input Impedance 10 MΩ
- Input Type Thermistor
- Isolation Voltage 3000 V<sub>DC</sub>
- NMR @ 50/60 Hz 100 dB
- Sampling Rate 10 samples / sec.
- Span Drift ± 25 ppm/° C
- Thermistor Types and Temperature Ranges
  - Thermistor 3k 0 ~ 100° C
  - Thermistor 10k 0 ~ 100° C
- Zero Drift ± 3 μV/° C

## Specifications

### General

- Connectors 2 x Plug-in terminal block (#14 ~ 22 AWG)
- Power Consumption 2.2 W @ 24 V<sub>DC</sub>

### Analog Input

- Channels 1 differential
- Input Impedance Voltage: 2 MΩ  
Current: 125 Ω (Added by users)
- Input Range ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±20 mA mV and mA
- Input Type
- Isolation Voltage 3,000 V<sub>DC</sub>
- NMR @ 50/60 Hz 100 dB
- Sampling Rate 10 samples/sec.
- Span Drift ±25 ppm/° C
- Zero Drift ±6 μV/° C

### Analog Output

- Accuracy 0.05% of FSR
- Channels 1
- Drift ±50 ppm/° C
- Drive Current 30 mA
- Isolation Voltage 3000 V<sub>DC</sub>
- Output Type V
- Output Range 0 ~ 10 V

### Digital Output

- Built-in TVS/ESD Protection
- Channels 2, open collector to 30 V, 30 mA max. load

## Common Specifications

### General

- Dimensions (WxHxD) 70 x 122 x 30 mm
- Enclosure ABS + PC
- Mounting DIN 35 rail, stack, wall
- Power Input Unregulated 10~30 V<sub>DC</sub>
- Watchdog Timer 1.6 sec. (system)

### Analog Input

- Accuracy ±0.05% or better

- Bandwidth 2.62 Hz
- CMR @ 50/60 Hz 150 dB
- Isolation Protection 3000 V<sub>DC</sub>
- Resolution 16 bits

### Environment

- Humidity 5 ~ 95% RH
- Operating Temperature -10~70° C (-14~158° F)
- Storage Temperature -25~85° C (-13~185° F)

## Ordering Information

- ADAM-4015 6-channel RTD Input Module w/Modbus®
- ADAM-4015T 6-channel Thermistor Input Module w/Modbus®
- ADAM-4016 Analog Input/Output Module